

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
5 July 2001 (05.07.2001)

PCT

(10) International Publication Number
WO 01/48040 A1

- (51) International Patent Classification⁷: C08F 10/02 (74) Agents: COLUCCI, Giuseppe; Basell Poliolefine Italia S.p.A., Intellectual Property, P.le G. Donegani, 12, I-44100 Ferrara et al. (IT).
- (21) International Application Number: PCT/EP00/13346
- (22) International Filing Date:
21 December 2000 (21.12.2000)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
99204565.8 28 December 1999 (28.12.1999) EP
- (71) Applicant (*for all designated States except US*): BASELL TECHNOLOGY COMPANY B.V. [NL/NL]; Hoeksteen 66, NL-2132 MS Hoofddorp (NL).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): DALL'OCCHO, Tiziano [IT/IT]; Via E. Farolfi, 3, I-44100 Ferrara (IT). FUSCO, Ofelia [IT/IT]; Via Mulinetto, 63, I-44100 Ferrara (IT). GALIMBERTI, Maurizio [IT/IT]; Via Pannonia, 6, I-20133 Milano (IT). NIFANT'EV, Ilya E. [RU/RU]; Bakinskikh Komissarov, Str. 12/3, appt. 60, Moscow, 119899 (RU). LAISHEVTSEV, Ilya P. [RU/RU]; appt. V-1255 Main Building, Moscow State University, Lenin's Hill, Moscow, 117234 (RU).
- Published:
— With international search report.
— Before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments.
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



WO 01/48040 A1

(54) Title: PROCESS FOR THE PREPARATION OF ETHYLENE POLYMERS

(57) Abstract: Ethylene based polymers having high molecular weights can be obtained in high yields at temperatures of industrial interest, by carrying out the polymerization reaction in the presence of catalysts comprising silicon bridged metallocenes having a particular ligand system containing a heteroatom.